Angela Buchholz

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10042740/publications.pdf

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28	1,054	430874 18	501196 28
papers	citations	h-index	g-index

37	37	37	1590
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multicomponent new particle formation from sulfuric acid, ammonia, and biogenic vapors. Science Advances, 2018, 4, eaau5363.	10.3	164
2	Factors controlling the evaporation of secondary organic aerosol from Î±â€pinene ozonolysis. Geophysical Research Letters, 2017, 44, 2562-2570.	4.0	95
3	Experimental study of the role of physicochemical surface processing on the IN ability of mineral dust particles. Atmospheric Chemistry and Physics, 2011, 11, 11131-11144.	4.9	70
4	Environmental conditions regulate the impact of plants on cloud formation. Nature Communications, 2017, 8, 14067.	12.8	62
5	Size-dependent influence of NO _x on the growth rates of organic aerosol particles. Science Advances, 2020, 6, eaay4945.	10.3	61
6	Hygroscopic growth and droplet activation of soot particles: uncoated, succinic or sulfuric acid coated. Atmospheric Chemistry and Physics, 2012, 12, 4525-4537.	4.9	57
7	The chemical and microphysical properties of secondary organic aerosols from Holm Oak emissions. Atmospheric Chemistry and Physics, 2010, 10, 7253-7265.	4.9	55
8	Terpene Composition Complexity Controls Secondary Organic Aerosol Yields from Scots Pine Volatile Emissions. Scientific Reports, 2018, 8, 3053.	3.3	44
9	Effect of Atmospheric Aging on Soot Particle Toxicity in Lung Cell Models at the Airâ€“Liquid Interface: Differential Toxicological Impacts of Biogenic and Anthropogenic Secondary Organic Aerosols (SOAs). Environmental Health Perspectives, 2022, 130, 27003.	6.0	44
10	Cloud condensation nuclei activity, droplet growth kinetics, and hygroscopicity of biogenic and anthropogenic secondary organic aerosol (SOA). Atmospheric Chemistry and Physics, 2016, 16, 1105-1121.	4.9	43
11	Cloud droplet activation of black carbon particles coated with organic compounds of varying solubility. Atmospheric Chemistry and Physics, 2018, 18, 12477-12489.	4.9	36
12	Secondary Organic Aerosol Formation from Healthy and Aphid-Stressed Scots Pine Emissions. ACS Earth and Space Chemistry, 2019, 3, 1756-1772.	2.7	32
13	Sizeâ€dependent hygroscopicity parameter (Îº) and chemical composition of secondary organic cloud condensation nuclei. Geophysical Research Letters, 2015, 42, 10,920.	4.0	31
14	Composition and volatility of secondary organic aerosol (SOA) formed from oxidation of real tree emissions compared to simplified volatile organic compound (VOC) systems. Atmospheric Chemistry and Physics, 2020, 20, 5629-5644.	4.9	31
15	On the calibration of FIGAERO-ToF-CIMS: importance and impact of calibrant delivery for the particle-phase calibration. Atmospheric Measurement Techniques, 2021, 14, 355-367.	3.1	28
16	Deconvolution of FIGAEROâ€“CIMS thermal desorption profiles using positive matrix factorisation to identify chemical and physical processes during particle evaporation. Atmospheric Chemistry and Physics, 2020, 20, 7693-7716.	4.9	28
17	Aerosol mass spectrometric measurements of stable crystal hydrates of oxalates and inferred relative ionization efficiency of water. Journal of Aerosol Science, 2011, 42, 11-19.	3.8	24
18	Insights into the Oâ€‰:â€‰C-dependent mechanisms controlling the evaporation of <i>Î±</i>-pinene secondary organic aerosol particles. Atmospheric Chemistry and Physics, 2019, 19, 4061-4073.	4.9	23

#	Article	IF	Citations
19	Novel method of generation of Ca(HCO₃)₂ and CaCO₃ aerosols and first determination of hygroscopic and cloud condensation nuclei activation properties. Atmospheric Chemistry and Physics, 2010, 10, 8601-8616.	4.9	22
20	Exposure to naphthalene and Î²-pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. Environment International, 2022, 166, 107366.	10.0	18
21	Potential dual effect of anthropogenic emissions on the formation of biogenic secondary organic aerosol (BSOA). Atmospheric Chemistry and Physics, 2019, 19, 15651-15671.	4.9	16
22	The importance of sesquiterpene oxidation products for secondary organic aerosol formation in a springtime hemiboreal forest. Atmospheric Chemistry and Physics, 2021, 21, 11781-11800.	4.9	16
23	Effect of Decreased Temperature on the Evaporation of Î±-Pinene Secondary Organic Aerosol Particles. ACS Earth and Space Chemistry, 2019, 3, 2775-2785.	2.7	15
24	Comparison of dimension reduction techniques in the analysis of mass spectrometry data. Atmospheric Measurement Techniques, 2020, 13, 2995-3022.	3.1	11
25	Ice nucleation on surrogates of boreal forest SOA particles: effect of water content and oxidative age. Atmospheric Chemistry and Physics, 2021, 21, 11069-11078.	4.9	7
26	Comparing secondary organic aerosol (SOA) volatility distributions derived from isothermal SOA particle evaporation data and FIGAEROâ€“CIMS measurements. Atmospheric Chemistry and Physics, 2020, 20, 10441-10458.	4.9	7
27	Evolution of volatility and composition in sesquiterpene-mixed and <i>Î±</i>-pinene secondary organic aerosol particles during isothermal evaporation. Atmospheric Chemistry and Physics, 2021, 21, 18283-18302.	4.9	6
28	Corrigendum to "Experimental study of the role of physicochemical surface processing on the IN ability of mineral dust particles" published in Atmos. Chem. Phys., 11, 11131â€“11144, 2011. Atmospheric Chemistry and Physics, 2011, 11, 11919-11919.	4.9	4